[0046] Having thus described the invention, what is claimed is:

- 1 1. A hydrostatic multi-motor drive unit comprising:
- at least two gearless, hydraulic motors acting upon a common load;
- a closed hydraulic circuit containing said at least two hydraulic motors;
- 4 at least one variable displacement pump in said closed hydraulic circuit
- 5 for supplying the pressure medium to said at least two hydraulic motors;
- said at least two hydraulic motors interconnected by at least one free-
- 7 wheel device, with one of said at least two hydraulic motors arranged after said
- 8 freewheel device; and

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- 9 said hydraulic motor arranged after said freewheel device having a vari-
- able displacement volume.
 - 1 2. The drive unit of claim 1, further including:
 - at least one pressure sensor in said hydraulic circuit between said at least
 - 3 two hydraulic motors and said variable displacement pump for distinguishing
 - 4 between the operating states of accelerating or decelerating.
 - 1 3. The drive unit of claim 2, further including:
 - 2 a controllable coupling interconnecting said at least two hydraulic motors
 - 3 in parallel with said freewheel device.
 - 1 4. The drive unit of claim 3, wherein:
 - 2 said at least two hydraulic motors, said freewheel device, and said con-
 - 3 trollable coupling are arranging in one casing.
 - 1 5. The drive unit of claim 4, further including:
 - 2 an electronic control unit connected to and managing the variables of said
 - 3 at least two hydraulic motors and said variable displacement pump.

The drive unit of claim 5, wherein:
 said electronic control unit comprises a microprocessor.
 The drive unit of claim 1, further including:

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- a controllable coupling interconnecting said at least two hydraulic motors
 in parallel with said freewheel device.
- The drive unit of claim 7, wherein:
 said at least two hydraulic motors, said freewheel device, and said controllable coupling are arranging in one casing.
- The drive unit of claim 8, further including:
 an electronic control unit connected to and managing the variables of said
 at least two hydraulic motors and said variable displacement pump.
- 1 10. The drive unit of claim 9, wherein:
 2 said electronic control unit comprises a microprocessor.
- The drive unit of claim 10, further including:
 a controllable coupling interconnecting said at least two hydraulic motors
 in parallel with said freewheel device.
- 1 12. A method for influencing the power and the direction of rotation of the hy-2 drostatic multi-motor drive unit of claim 3, comprising the steps of:
 - (a) varying the displacement volume of said displacement pump;
- 4 (b) varying the volume of one of said at least two hydraulic motors;
- 5 (c) engaging or disengaging said controllable clutch to determine the 6 direction of rotation of said load.

- 1 13. The method of claim 12, further comprising the steps of:
- 2 (d) increasing the displacement volume of said displacement pump;
- (e) for further increases in the rotational speed, the volume of said one of said at least two hydraulic motors is reduced and, if even additional rotational speed is desired, the volume of the other said one of said at least two hydraulic
- 6 is reduced.

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- 1 14. The method of claim 13, further comprising the steps of:
- 2 (f) observe said pressure sensor, and when a pressure change in said 3 hydraulic circuit is recognized;
- 4 (g) adjusting the displacement volume of said displacement pump.
- 1 15. A procedure in accordance with claim 6 for accelerating a multi-motor drive unit in the reverse direction, **characterized in that,**
- the delivery direction of the pump (5) is reversed, the displacement volume of the pump (5) is increased and to further increase the rotational speed the volume of the motor (2) is reduced.